

DAIKIN

INVERTER

DAIKIN ROOM AIR CONDITIONER

Operation Manual

MODELS FTKM25PVM
FTKM35PVM
FTKM42PVM
FTKM50PVM



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Note :

Illustrations in this manual are for explanation to user only. And may differ from the actual machine. Are subject to change without prior notice. For the development of future products.

Safety precautions



Read the precautions in this manual carefully before operating the unit.



This appliance is filled with R32.

- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.
- Keep this manual where the operator can easily find them.
- Read all safety precautions in this manual carefully before operating the unit.
- For safety reason the operator must read the following cautions carefully.
- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.



WARNING

Failure to follow these instructions properly may result in personal injury or loss of life.



CAUTION

Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.



Never attempt.



Be sure to establish an earth connection.



Never touch the air conditioner nor the remote controller with wet hands.



Be sure to follow the instructions.



Never wet the air conditioner nor the remote controller with water.



WARNING

- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- The appliance must be installed, operated and stored in a room with a floor area larger than 2.6m².
- In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
- It is not good for health to expose your body to the air flow for a long time.
- Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result due to contact with the air conditioner's high-speed fan blades.
- Do not attempt to repair, dismantle reinstall or modify the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
- Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
- Do not use flammable spray near the air conditioner, or otherwise fire may result.
- Do not place flammable items, such as spray cans, within 1 meter of the air outlet. The spray cans may explode as a result of hot air from the indoor or outdoor units.
- When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Do not use a refrigerant other than the one indicated on the outdoor unit (R32) when installing, moving or repairing. Using other refrigerant may cause trouble or damage to the unit, and personal injury.



- The refrigerant used in the air conditioner is safe. Although leaks should not occur, if for some reason any refrigerant happens to leak into the room, make sure it does not come in contact with any flame as of gas heaters, kerosene heaters or gas range.
- If the air conditioner is not cooling properly, the refrigerant may be leaking, so call your dealer. When carrying out repairs accompanying adding refrigerant, check the content of the repairs with our service staff.
- Do not attempt to install the air conditioner by yourself. Incorrect work will result in water leakage, electric shocks or fire. For installation, consult the dealer or a qualified technician.
- In order to avoid electric shock, fire or injury, if you detect any abnormality such as smell of fire, stop the operation and turn off the breaker. And call your dealer for instructions.
- Do not wash the air conditioner with water, as this may result in electric shocks or fire.
- Do not place water containers (flower etc.) above the unit, as this may result in electric shocks or fire hazards.



- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.
- Only connect the air conditioner to the specified power supply circuit. Power suppliers other than the one specified may result in electric shocks, overheating and fires.

- Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.



CAUTION

- Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
 - Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
 - Do not expose plants or animals directly to airflow from the unit as this may cause adverse effects.
 - Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.
 - Do not block air inlets nor outlets. Impaired air flow may result in insufficient performance or trouble.
 - Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use air conditioner until a qualified service person confirms that the leakage has been repaired.
 - Do not sit or place objects on the outdoor unit. Falling yourself or falling objects could cause injury.
 - Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
 - After prolonged use, check the unit stand and its mounts for damage. If left in a damaged condition, the unit may fall and cause injury.
 - To avoid injury, do not touch the air inlet or aluminium fins of the indoor or outdoor units.
 - The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
 - Children should be supervised to ensure that they do not play with the unit or its remote controller. Accidental operation by a child may result in impairment of bodily functions and harm health.
 - Do not sit on the outdoor unit. Put things on the unit, or pull the unit. Doing so may cause accidents, such as falling or toppling down, thus resulting in injury, product malfunctioning, or product damage.
 - Do not give impact to the indoor and outdoor units, or otherwise product damage may result.
 - Do not place objects around the indoor unit. Doing so may have an adverse influence on the performance, product quality, and life of the air conditioner.
 - Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shocks or fire.
 - Do not sit or hang on the up and down panel. The up and down panel may fall, and injury or product malfunctioning may result.
 - Do not sway the up and down panel. The up and down panel may hit people or objects, and injury or property damage may result.
 - Do not let children play around the up and down panel. Injury or property damage may result.
 - Do not pull the wires. The wires may be broken and the up and down panel may fall, and injury or property damage may result.
 - Do not locate obstacles in the up and down route. The up and down panel may fall, and injury or property damage may result.
 - Do not bend or damage the wires. The wires may be broken and the up and down panel may fall, and injury or property damage may result.
 - Do not put objects on the up and down panel, or otherwise production malfunctioning may result.
 - Do not use an unstable stand at the time of operating or maintaining the air conditioner, or otherwise you may topple over or injury yourself.
 - Locate the remote controller in places out of reach of children. The wrong operation of the remote controller may result in injury.
-
- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
 - Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord. Otherwise, an electric shock and injury may result.
 - Do not connect the air conditioner to a power supply different from the one as specified. It may cause trouble or fire.
 - Depending on the environment, an earth leakage breaker must be installed. Lack of an earth leakage breaker may result in electric shocks.



- Arrange the drain hose to ensure smooth drainage. Incomplete draining may cause wetting of the building, furniture etc.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.
Leaves are a hotbed for small animals which can enter the unit.
Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.
- To avoid electric shocks, do not operate with wet hands.



- Do not wash the indoor unit with excessive water, only use a slightly wet cloth.
- Do not place things such as vessels containing water or anything else on top of the unit. Water may penetrate into the unit and degrade electrical insulations, resulting in an electric shock.



Installation site.

- To install the air conditioner in the following types of environments, consult the dealer.
 - Places with an oily ambient or where steam or soot occurs.
 - Salty environment such as coastal areas.
 - Places where sulfide gas occurs such as hot springs.
 - Places where snow may block the outdoor unit.
 - The indoor unit is at least 1m away from any television or radio set (unit may cause interference with the picture or sound).
 - The drain from the outdoor unit must be discharged to a place of good drainage.

Consider nuisance to your neighbours from noises.

- Also pay attention to operating noise.
 - Select the following kinds of location:
 - A. A place that can sufficiently withstand the weight of the air conditioner with less running noises and vibrations.
 - B. A place where warm airflow from the air outlet of the outdoor unit and operating noise do not cause a nuisance to neighbours.
 - Be sure there are no obstructions near the air outlet of the outdoor unit.
 - Obstructions may result in poor performance and increased operating noise. If abnormal noise occur, ask your dealer for advise.

Electrical work.

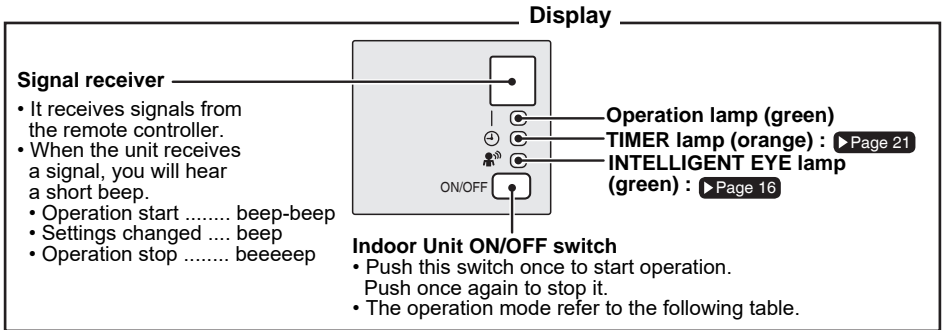
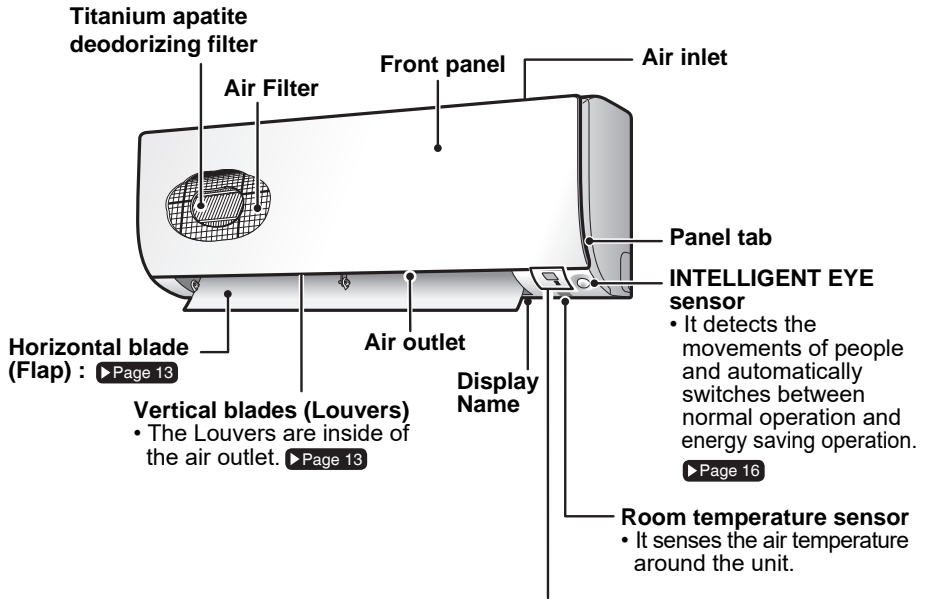
- For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation.

- Consult your Daikin dealer about remodelling and relocation.

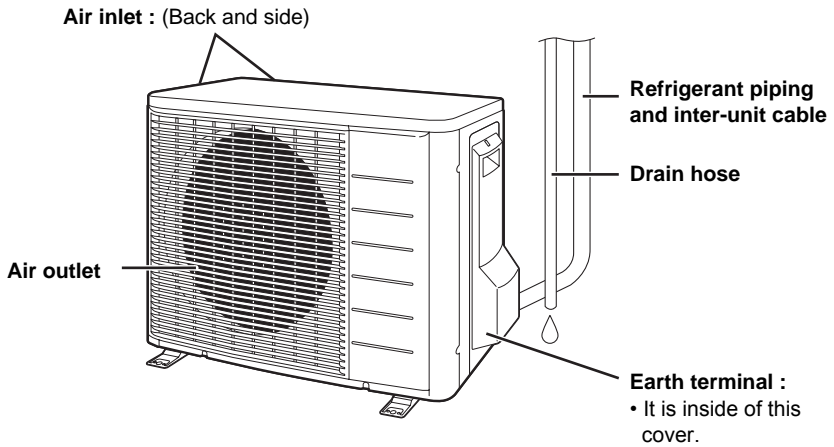
Names of parts

■ Indoor Unit



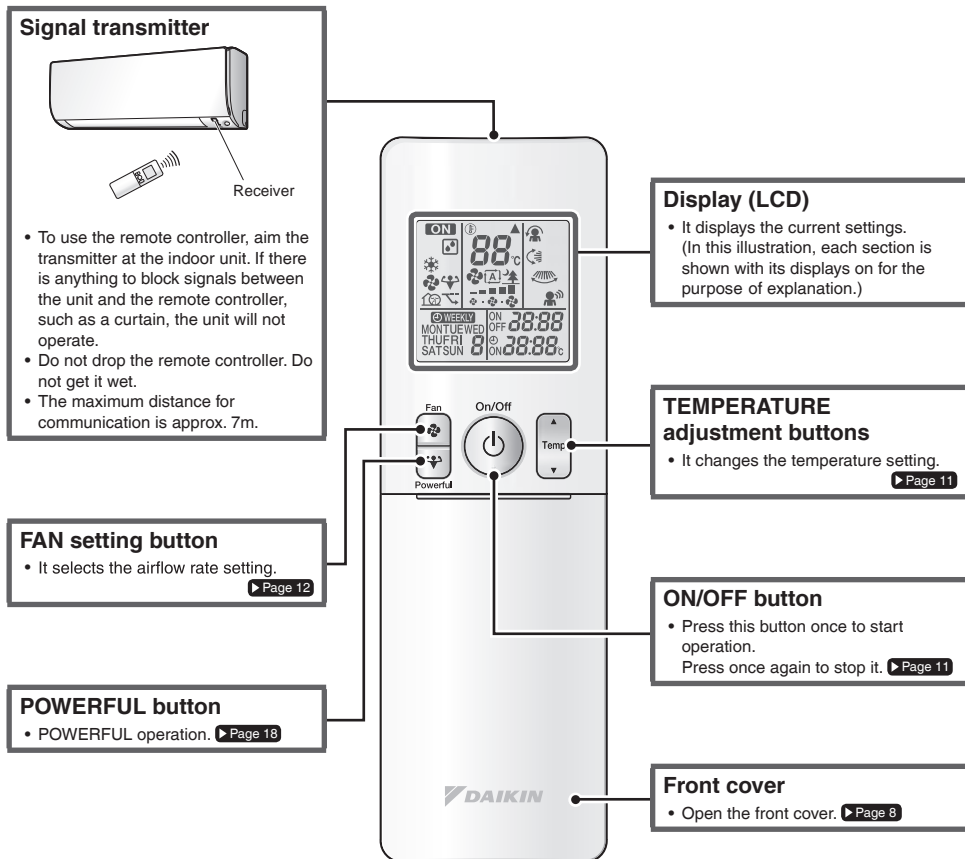
■ Outdoor Unit

(For RKM25/35/42/50*)



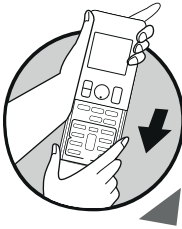
*Appearance of the outdoor unit may differ from some models.

Remote Controller



Model	ARC466A19
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■ Open the front cover



MODE selector button

- t selects the operation mode. (DRY/COOL/FAN) ▶Page 11

ECONO/QUIET button

- ECONO/OUTDOOR UNIT QUIET operation. ▶Page 19

SWING button

- Adjusting the airflow direction. ▶Page 13

COMFORT/SENSOR button

- COMFORT AIRFLOW and INTELLIGENT EYE operation. ▶Page 15

OFF TIMER button

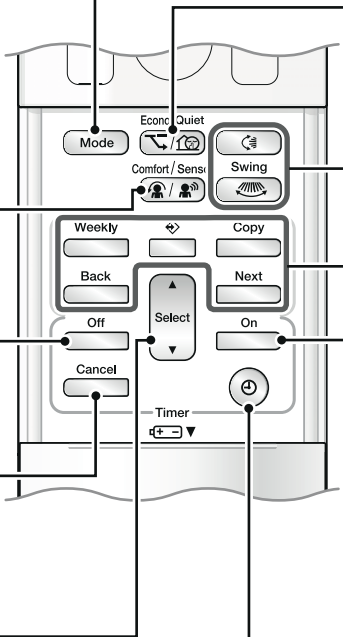
▶Page 21

TIMER CANCEL button

- t cancels the timer setting. ▶Page 21,22
- t cannot be used for the WEEKLY TIMER operation.

SELECT button

- t changes the ON/OFF TIMER and WEEKLY TIMER settings. ▶Page 21,22,23



Weekly

Weekly : WEEKLY button

PROGRAM button

Copy : COPY button

Back : BACK button

Next : NEXT button

- WEEKLY TIMER operation. ▶Page 23

ON TIMER button

▶Page 22

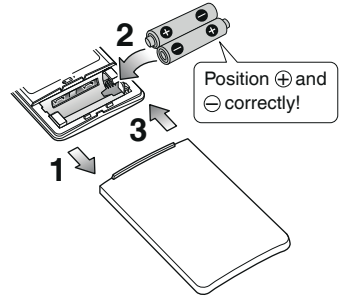
CLOCK button

▶Page 10

Preparation before Operation

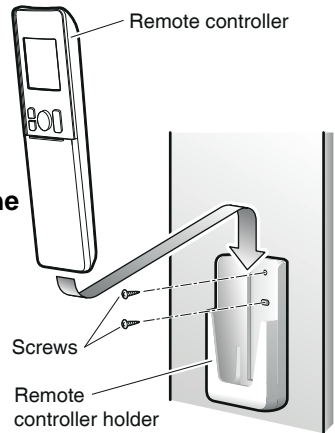
■ To set the batteries

1. Slide the front cover to take it off.
2. Set two dry batteries AAA.
3. Set the front cover as before.



■ To fix the remote controller holder on the wall

1. Choose a place from where the signals reach the unit.
2. Fix the holder to a wall, a pillar, etc. with the screws supplied with the holder.
3. Place the remote controller in the remote controller holder.



ATTENTION

■ About batteries

- When replacing the batteries, use batteries of the same type, and replace the 2 old batteries together.
- When the system is not used for a long time, take the batteries out.
- Batteries will last for approximately 1 year. If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both batteries with new size AAA alkaline batteries.
- The attached batteries are provided for the initial use of the system.
The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

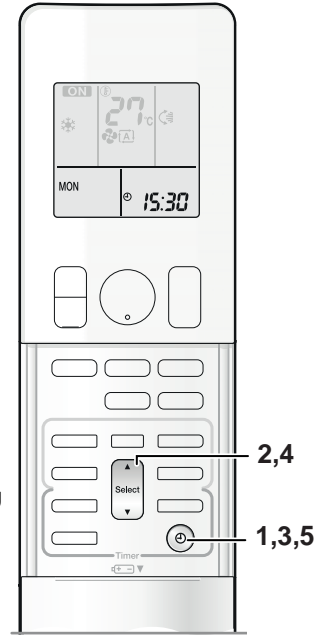
■ About remote controller

- Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult the shop if that is the case.
- If the remote controller signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

Preparation Before Operation

■ To set the clock

1. Press “CLOCK button”.
 - “0:00” is displayed on the LCD.
 - “MON” and “⊕” blink.
2. Press “SELECT button” to set the current day of the week.
3. Press “CLOCK button”.
 - “⊕” blinks.
4. Press “SELECT button” to set the clock to the present time.
 - Holding down ▲ or ▼ rapidly increases or decreases the time display.
5. Press “CLOCK button”
 - Point the remote controller at the indoor unit when pressing the buttons.
 - “.” blinks.



■ Turn the breaker ON

- Turning ON the breaker opens the flaps, then closes it again. (This is a normal procedure.)

NOTE

■ Note on setting the clock

- If the indoor unit's internal clock is not set to the correct time, the ON TIMER, OFF TIMER and WEEKLY TIMER will not operate punctually.

■ Tips for saving energy

- Be careful not to cool the room too much. Keeping the temperature setting at a moderate level helps save energy.
- Cover windows with a blind or a curtain. Blocking sunlight and air from outdoors increases the cooling effect.
- Clogged air filters cause inefficient operation and waste energy. Clean them once in about every 2 weeks.

Recommended temperature setting
For cooling: 26°C – 28°C

■ Please note

- The air conditioner always consumes a small amount of electricity even while it is not operating.
- If you are not going to use the air conditioner for a long period, for example in winter, turn the breaker OFF.
- Use the air conditioner in the following conditions.

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature: 19.4 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	<ul style="list-style-type: none"> • A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.
DRY	Outdoor temperature: 19.4 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	<ul style="list-style-type: none"> • A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.

- Operation outside this humidity or temperature range may cause a safety device to disable the system.

DRY · COOL · FAN Operation

The air conditioner operates with the operation mode of your choice.

From the next time on, the air conditioner will operate with the same operation mode.

■ To start operation

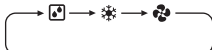
1. Press “MODE selector button” and select a operation mode.

- Each pressing of the button advances the mode setting in sequence.

 : DRY

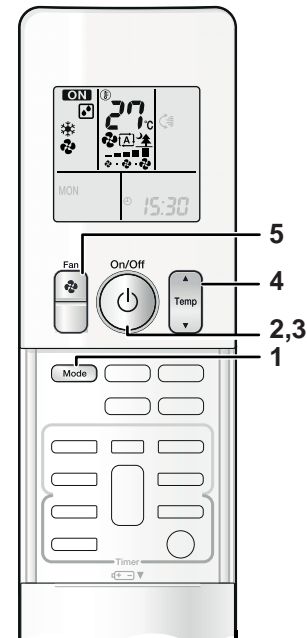
 : COOL

 : FAN



2. Press “ON/OFF button”.

- “ON” is displayed on the LCD.
- The OPERATION lamp lights up.




■ To stop operation

3. Press “ON/OFF button” again.

- “ON” disappears from the LCD.
- Then OPERATION lamp disappear.






■ To change the temperature setting

4. Press “TEMPERATURE adjustment button”.


DRY or FAN mode	COOL mode
The temperature setting is not variable.	Press “▲” to raise the temperature and press “▼” reduce the temperature.
	Set to the temperature you like. 

■ To change the airflow rate setting

5. Press “FAN setting button”.

DRY mode	COOL or FAN mode
<p>The airflow rate setting is not variable.</p>	<p>5 levels of airflow rate setting from “” to “” plus “” “” are available.</p> 

- Indoor unit quiet operation.

When the airflow is set to “”, the noise from the indoor unit will become quieter. Use this when making the noise quieter.

The unit might lose capacity when the air flow rate is set to a weak level.

NOTE

■ Note on COOL operation

- This air conditioner cools the room by blowing the hot air in the room outside, so if the outside temperature is high, the performance of the air conditioner drop.

■ Note on DRY operation

- The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.

■ Note on FAN operation

- This mode is valid for fan only.





■ Note on airflow rate setting

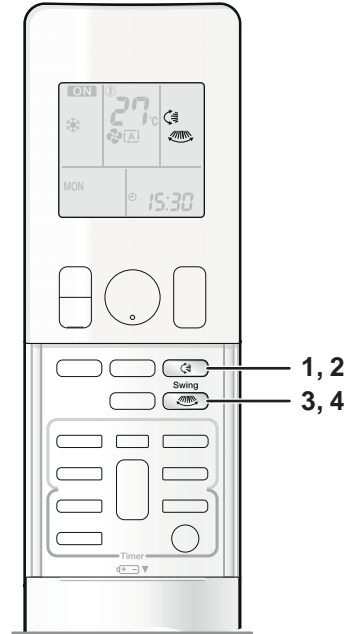
- At smaller airflow rates, the cooling effect is also smaller.

Adjusting the Airflow Direction





You can adjust the airflow direction to increase your comfort.

■ To adjust the flaps (horizontal blades)





1. Press “SWING button ”.
 - “” is displayed on the LCD and the flaps will begin to swing.
2. When the flaps have reached the desired position, press “SWING button ” once more.
 - The flaps will stop moving.
 - “” disappears from the LCD.



■ To adjust the louvers (vertical blades)

3. Press “SWING button ”.
 - “” is displayed on the LCD.
4. When the louvers have reached the desired position, press the “SWING button ” once more.
 - The louvers will stop moving.
 - “” disappears from the LCD.

■ To start 3-D Airflow

Press the “SWING button ” and the “SWING button ”:
the “” and “” display will light up and the flap and louvers will move in turn.

■ To cancel 3-D Airflow

Press either the “SWING button ” or the “SWING button ”.

■ COMFORT AIRFLOW operation

- Check COMFORT AIRFLOW operation in the section of “COMFORT AIRFLOW Operation” and “INTELLIGENT EYE Operation”. [▶Page 15,16](#)

Notes on flaps and louvers angles

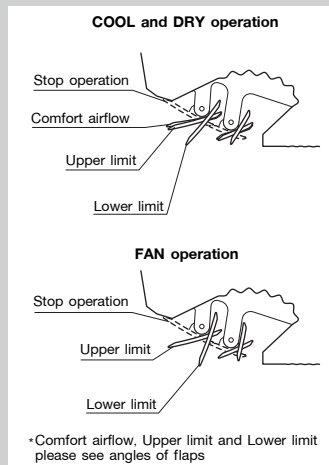
- When “SWING button” is selected, the flaps swinging range depends on the operation mode. (See the figure.)

Three-Dimensional (3-D) Airflow

- Using three-dimensional airflow circulates cold air, which tends to collect at the bottom of the room, and hot air, which tends to collect near the ceiling, throughout the room, preventing areas of cold and hot developing.

■ ATTENTION

- Always use a remote controller to adjust the angles of the flaps and louvers. If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken.
- Always use a remote controller to adjust the louvers angles. In side the air outlet, a fan is rotating at a high speed.



*Angle of the flap



Model	Comfort airflow	COOL operation	DRY operation	FAN operation
FTKM25/35/42/50	0°	5° - 40°	5° - 40°	0° - 65°

COMFORT AIRFLOW Operation

The flow of air will be in the upward direction while in cooling mode will provide a comfortable wind that will not come in direct contact with people.

■ To start COMFORT AIRFLOW operation

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

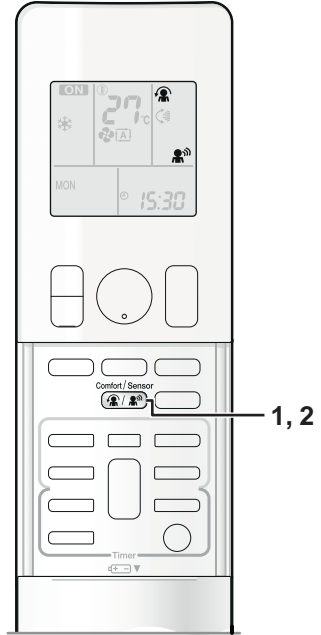
- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.
- By selecting “ • ” from the following icons, the air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation. ▶ Page 17



■ To cancel COMFORT AIRFLOW operation

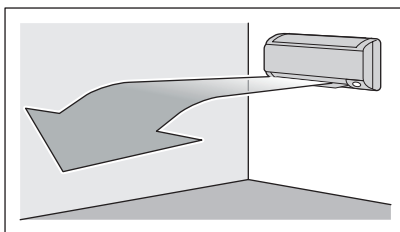
2. Press “COMFORT/SENSOR button”.

- Press the button to select “Blank”.



Notes on “COMFORT AIRFLOW Operation”

- The flap position will change, preventing air from blowing directly on the occupants of the room.
- POWERFUL operation and COMFORT AIRFLOW operation cannot be used at the same time.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW function will be canceled.
- Priority is given to the function of whichever button is pressed last.
- The COMFORT AIRFLOW function makes the following airflow direction adjustments. The flaps will move upward while cooling so that the airflow will be directed upward.





Cooling operation

INTELLIGENT EYE Operation

“INTELLIGENT EYE” is the infrared sensor which detects the human movement.

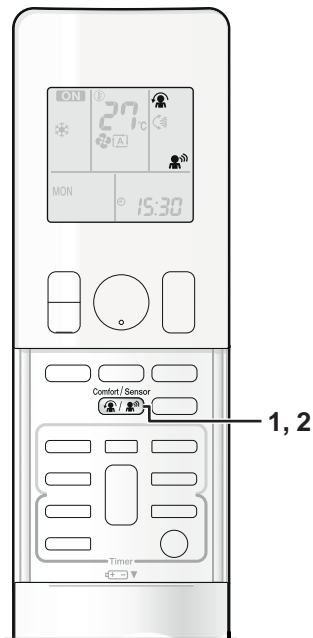
■ To start INTELLIGENT EYE operation

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.
- By selecting “ • ” from the following icons, the air conditioner will be in INTELLIGENT EYE operation combined with COMFORT AIRFLOW operation. [▶ Page 17](#)



- When the flaps (horizontal blades) are swinging, the operating as above will stop the movement of them.



■ To cancel the INTELLIGENT EYE operation

2. Press “COMFORT/SENSOR button”.

- Press the button to select “Blank”.

[EX.]

When somebody in the room • Normal operation The air conditioner is in normal operation while the sensor is detecting the movement of people.	
--	--

When nobody in the room • 20 min. after, start energy saving operation. The set temperature is shifted in +2°C steps.	
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Somebody back in the room • Back to normal operation. The air conditioner will return to normal operation when the sensor detects the movement of people again.	
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INTELLIGENT EYE Operation

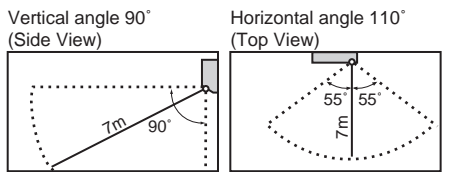
“INTELLIGENT EYE” is useful for Energy Saving

■ Energy saving operation

- Change the temperature +2°C in cooling / +2°C in dry mode from set temperature.
- Decrease the airflow rate slightly in FAN mode only.
- If no presence detected in the room for 20 minutes.

Notes on “INTELLIGENT EYE”

- Application range is as follows.



- Sensor may not detect moving objects further than 7m away. (Check the application range)
- Sensor detection sensitivity changes according to indoor unit location, the speed of passersby, temperature range, etc.
- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.
- INTELLIGENT EYE operation will not go on during powerful operation.
- NIGHT SET MODE [▶Page 21](#) will not go on during use of INTELLIGENT EYE operation.

■ To combine “COMFORT AIRFLOW Operation” and “INTELLIGENT EYE Operation”

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.



2. Press “COMFORT/SENSOR button”.

- Press the button to select “Blank”.

- The air conditioner can go into operation with the COMFORT AIRFLOW and INTELLIGENT EYE functions combined.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW operation will be canceled. Priority is given to the function of whichever button is pressed last.

CAUTION


- Do not place large objects near the sensor. Also keep heating units or humidifiers outside the sensor's detection area. This sensor can detect undesirable objects.
- Do not hit or violently push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.

POWERFUL Operation

POWERFUL operation quickly maximizes the cooling effect in any operation mode. You can get the maximum capacity.

■ To start POWERFUL operation

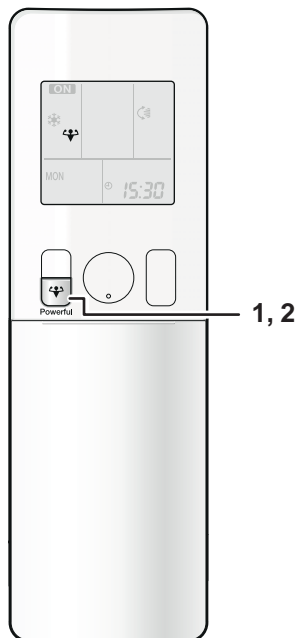
1. Press “POWERFUL button”.

- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWERFUL operation.
- “” is displayed on the LCD.
- When using POWERFUL operation, there are some functions which are not available.

■ To cancel POWERFUL operation


2. Press “POWERFUL button” again.

- “” disappears from the LCD.



NOTE




■ Notes on POWERFUL operation

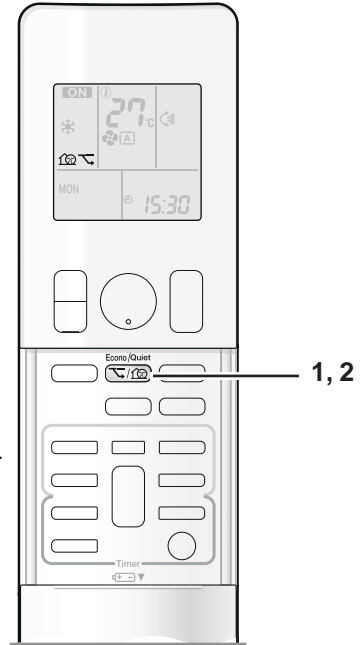
- POWERFUL Operation cannot be used together with ECONO, QUIET, or COMFORT Operation. Priority is given to the function of whichever button is pressed last.
- POWERFUL Operation can only be set when the unit is running. Pressing the operation stop button causes the settings to be canceled, and the “” disappears from the LCD.
- POWERFUL Operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- **In COOL mode**
To maximize the cooling effect, the capacity of outdoor unit must be increased and the airflow rate be fixed to the maximum setting.
The temperature and airflow settings are not variable.
- **In DRY mode**
The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.
- **In FAN mode**
The airflow rate is fixed to the maximum setting.

OUTDOOR UNIT QUIET Operation

OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed on the outdoor unit. This function is convenient during night.

■ To start OUTDOOR UNIT QUIET operation

1. Press “ECONO/QUIET button” and select “” on the LCD.
 - Each time the “ECONO/QUIET button” is pressed a different setting option is displayed on the LCD.
 - By selection “ ” from the following icons, the air conditioner will be in OUTDOOR UNIT QUIET operation combined with ECONO operation.



■ To cancel OUTDOOR UNIT QUIET operation

2. Press “ECONO/QUIET button”.
 - Press the button to select “Blank”.

NOTE

■ Note on OUTDOOR UNIT QUIET operation

- This function is available in COOL mode.
(This is not available in FAN and DRY mode.)
- POWERFUL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time.
Priority is given to the function of whichever button is pressed last.
- OUTDOOR UNIT QUIET Operation will drop neither the frequency nor fan speed if the frequency and fan speed have been already dropped low enough.


ECONO Operation

ECONO operation is a function which enables efficient operation by limiting the maximum power consumption value.

This function is useful for cases in which attention should be paid to ensure a circuit breaker will not trip when the product runs alongside other appliances.

■ To start ECONO operation

1. Press “ECONO/QUIET button” and select “” on the LCD.

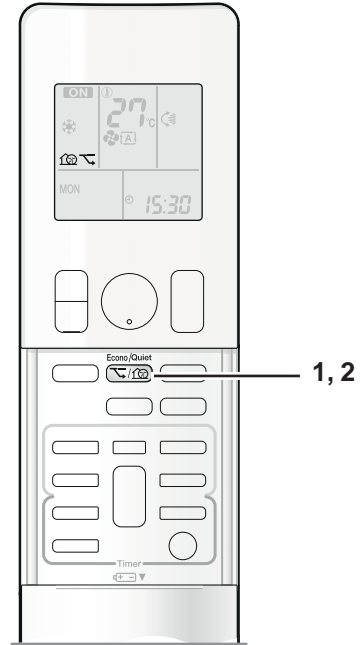
- Each time the “ECONO/QUIET button” is pressed a different setting option is displayed on the LCD.
- By selection “” from the following icons, the air conditioner will be in ECONO operation combined with OUTDOOR UNIT QUIET operation.



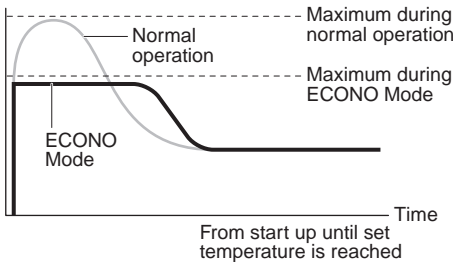
■ To cancel ECONO operation

2. Press “ECONO/QUIET button”.

- Press the button to select “Blank”.




Running current and power consumption



- This diagram is a representation for illustrative purposes only.
- The maximum running current and power consumption of the air conditioner in ECONO mode vary with the connecting outdoor unit.

NOTE

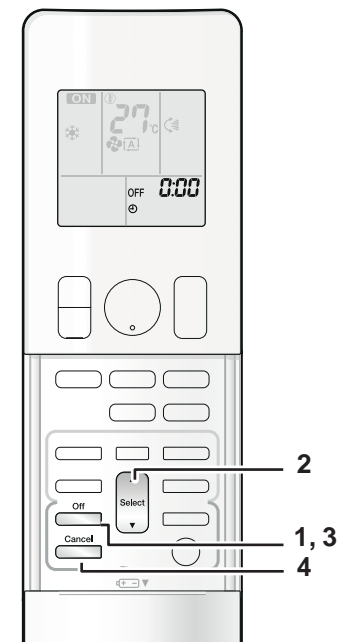
- ECONO Operation can only be set when the unit is running. Pressing the OFF button causes the setting to be canceled, and the “” disappears from the LCD.
- ECONO operation is a function which enables efficient operation by limiting the power consumption of the outdoor unit (operating frequency).
- ECONO operation functions in COOL and DRY modes.
- POWERFUL and ECONO operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
- Power consumption may not drop even if ECONO operation is used if the level of power consumption is already low.

TIMER Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

■ To use OFF TIMER operation

- Check that the clock is correct.
If not, set the clock to the present time. ▶ [Page 10](#)
- 1. Press “OFF button”.**
 - **0:00** is displayed.
 - “OFF” blinks.
 - “⌚” and day of the week disappear from the LCD.
 - 2. Press “SELECT button” until the time setting reaches the point you like.**
 - Each pressing of either button increases or decreases the time setting by 10 minutes.
Holding down either button changes the time setting rapidly.
 - 3. Press “OFF button”.**
 - “OFF” and setting time are displayed on the LCD.
 - The TIMER lamp lights orange.



■ To cancel the OFF TIMER Operation

- 4. Press “CANCEL button”.**
 - “OFF” and setting time disappear from the LCD.
 - “⌚” and day of the week disappear from the LCD.
 - The TIMER lamp goes off.

NOTE

- When TIMER is set, the present time is not displayed.
- Once you set ON, OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller batteries are replaced.)
- When operating the unit via the ON/OFF Timer, the actual length of operation may vary from the time entered by the user. (Maximum approx. 10 minutes)

■ NIGHT SET MODE

When the OFF TIMER is set, the air conditioner automatically adjusts the temperature setting (0.5°C up in COOL) to prevent excessive cooling for your pleasant sleep.

■ To use ON TIMER operation

- Check that the clock is correct. If not, set the clock to the present time. ▶ Page 10

1. Press “ON button”.

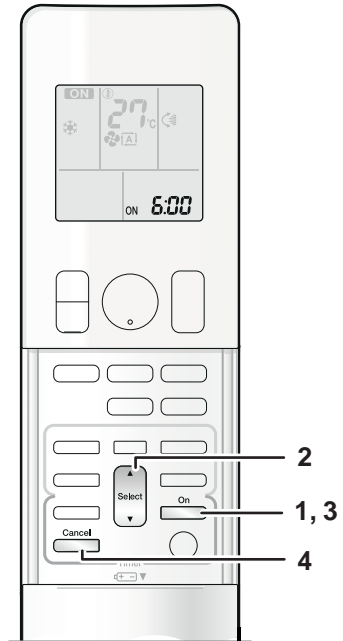
- 6:00 is displayed on the LCD.
- “ON” blinks.
- “⊕” and day of the week disappear from the LCD.

2. Press “SELECT button” until the time setting reaches the point you like.

- Each pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly.

3. Press “ON button” again.

- “ON” and setting time are displayed on the LCD.
- The TIMER lamp lights orange.



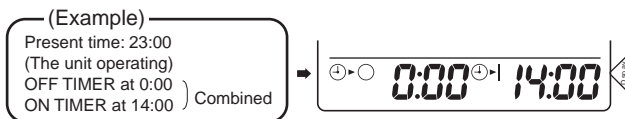
■ To cancel ON TIMER operation

4. Press “CANCEL button”.

- “ON” and setting time disappear from the LCD.
- “⊕” and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

■ To combine ON TIMER and OFF TIMER

- A sample setting for combining the 2 timers is shown below.



ATTENTION

■ In the following cases, set the timer again.

- After a breaker has turned OFF.
- After a power failure.
- After replacing batteries in the remote controller.

WEEKLY TIMER Operation

Up to 4 timer setting can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the family's life style.

■ Using in these cases of WEEKLY TIMER

Example: The same timer settings are made for the week from Monday through Friday while different timer setting are made for the weekend.

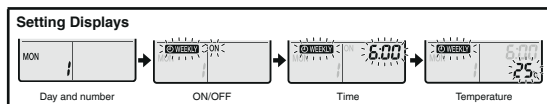
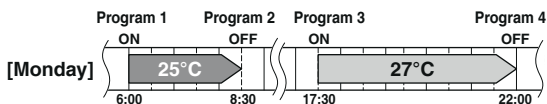
<p>[Monday]</p>	<p>Make timer settings up to programs 1-4. ▶Page 24</p>
<p>[Tuesday] to [Friday]</p>	<p>Use the copy mode to make settings for Tuesday to Friday, because these settings are the same as those for Monday. ▶Page 26</p>
<p>[Saturday]</p>	<p>No timer settings</p>
<p>[Sunday]</p>	<p>Make timer settings up to programs 1-4. ▶Page 24</p>

- Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.
- The use of ON-ON-ON-ON settings, for example, makes it possible to schedule operating mode and set temperature changes. Furthermore, by using OFF-OFF-OFF-OFF settings, only the turn off time of each day can be set. This will turn off the air conditioner automatically if the user forgets to turn it off.

■ To use WEEKLY TIMER operation

Setting mode

- Make sure the day of the week and time are set. If not, set the day of the week and time. ▶ Page 10



1. Press “PROGRAM button”.

- The day of the week and the reservation number of the current day will be displayed.
- 1 to 4 settings can be made per day.

2. Press “SELECT button” to select the desired day of the week and reservation number.

- Pressing “SELECT button” changes the reservation number and the day of the week.

3. Press “NEXT button”.

- The day of the week and reservation number will be set.
- “WEEKLY” and “ON” blink.

4. Press “SELECT button” to select the desired mode.

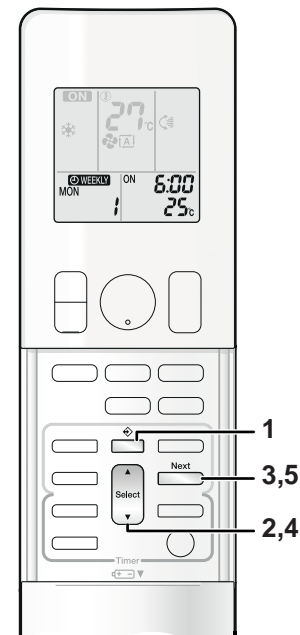
- Pressing “SELECT button” changes “ON” or “OFF” setting in sequence. Pressing ▲ alternates the following items appearing on the LCD in rotational sequence.



- In case the reservation has already been set, selecting “blank” deletes the reservation.
- Go to step 9 if “blank” is selected.
- To return to the day of the week and reservation number setting, press “BACK button”.

5. Press “NEXT button”.

- The ON/OFF TIMER mode will be set.
- “WEEKLY” and the time blink.



6. Press “SELECT button” to select the desired time.

- The time can be set between 0:00 and 23:50 in 10 minute intervals.
- To return to the ON/OFF TIMER mode setting, press “BACK button”.
- Go to step **9** when setting the OFF TIMER.

7. Press “NEXT button”.

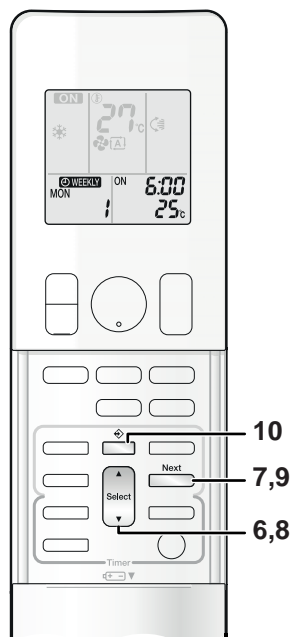
- The time will be set.
- “**WEEKLY**” and the temperature blink.

8. Press “SELECT button” to select the desired temperature.

- The temperature can be set between 18°C and 32°C.
COOL: The unit operates at 18°C
- To return to the time setting, press “BACK button”.
- The set temperature is only displayed when the mode setting is on.

9. Press “NEXT button”.

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashin the OPERATION lamp.
- The temperature is set while in ON TIMER operation, and the time is set while in OFF TIMER operation.
- The next reservation screen will appear.
- To continue further settings, repeat the procedure from step **4**.
- The TIMER lamp lights orange.



10. Press “PROGRAM button” to complete the setting.

- “**WEEKLY**” is displayed on the LCD and WEEKLY TIMER operation is activated.
- A reservation made once can be easily copied and the same settings used for another day of the week. Refer to copy mode. [▶ Page 26](#)

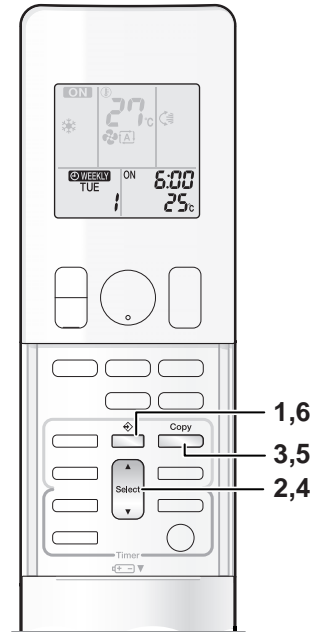
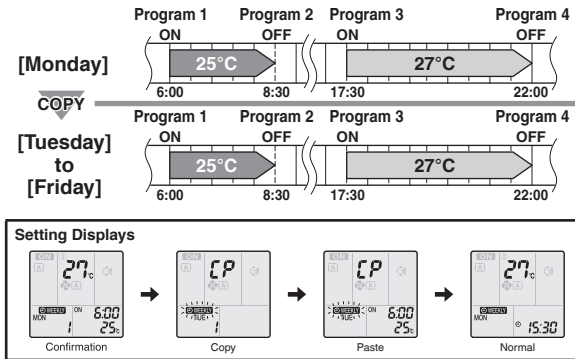
NOTE

■ Notes on WEEKLY TIMER operation

- Do not forget to set the clock on the remote controller first. [▶ Page 10](#)
- The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON T MER mode) can be set with WEEKLY TIMER.
Other settings for ON TIMER are based on the settings just before the operation.
- Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and “**WEEKLY**” will disappear from the LCD. When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active.
- Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock. [▶ Page 10](#)

Copy mode

- A reservation made once can be copied to another day of the week. The whole reservation of the selected day of the week will be copied.



1. Press “PROGRAM button”.
2. Press “SELECT button” to confirm the day of the week to be copied.
3. Press “COPY button”.
 - The whole reservation of the selected day of the week will be copied.
4. Press “SELECT button” to select the destination day of the week.
5. Press “COPY button”.
 - Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing the OPERATION lamp.
 - The reservation will be copied to the selected day of the week. The whole reservation of the selected day of the week will be copied.
 - To continue copying the settings to other days of the week, repeat step 4 and step 5 .
 - The TIMER lamp lights yellow.
6. Press “PROGRAM button” to complete the setting.
 - “WEEKLY” is displayed on the LCD and WEEKLY TIMER operation is activated.

NOTE

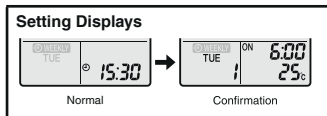
■ Note on copy mode

- The entire reservation of the source day of the week is copied in the copy mode.

In the case of making a reservation change for any day of the week individually after copying the content of weekly reservations, press “PROGRAM button” and change the settings in the steps of setting mode. [▶ Page 24](#)

■ Confirming a reservation

- The reservation can be confirmed.



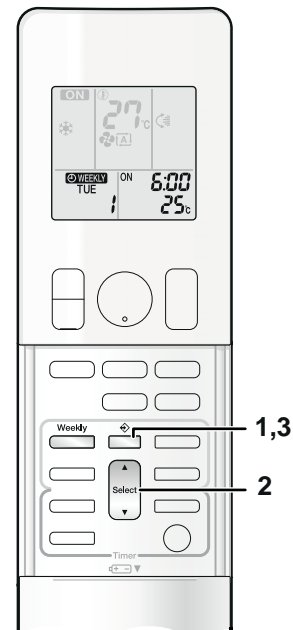
1. Press “PROGRAM button”.

- The day of the week and the reservation number of the current day will be displayed.

2. Press “SELECT button” to select the day of the week and the reservation number to be confirmed.

- Pressing “SELECT button” displays the reservation details.
- To change the confirmed reserved settings, select the reservation number and press “NEXT button”. The mode is switched to setting mode. Go to setting mode step 2. [▶ Page 24](#)

3. Press “PROGRAM button” to exit confirming mode.



■ To deactivate WEEKLY TIMER operation

Press “WEEKLY button” while “**WEEKLY**” is displayed on the LCD.

- The “**WEEKLY**” will disappear from the LCD.
- The TIMER lamp goes off.
- To reactivate the WEEKLY TIMER operation, press “WEEKLY button” again.
- If a reservation deactivated with “WEEKLY button” is activated once again, the last reservation mode will be used.

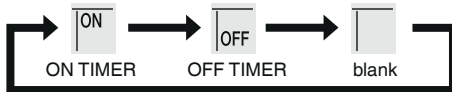
CAUTION

- If not all the reservation settings are reflected, deactivate the WEEKLY TIMER operation once. Then press “WEEKLY button” again to reactivate the WEEKLY TIMER operation.

■ To delete reservations

The individual reservation

1. Press **“PROGRAM button”**.
 - The day of the week and the reservation number will be displayed.
2. Press **“SELECT button”** to select the day of the week and the reservation number to be deleted.
3. Press **“NEXT button”**.
 - **“WEEKLY”** and **“ON”** or **“OFF”** blink.
4. Press **“SELECT button”** and select **“blank”**.
 - Pressing **“SELECT button”** changes ON/OFF TIMER mode. Pressing **▲** alternates the following items appearing on the LCD in rotational sequence.
 - The reservation will be no setting with selecting **“blank”**.



5. Press **“NEXT button”**.
 - The selected reservation will be deleted.
6. Press **“PROGRAM button”**.
 - If there are still other reservations, WEEKLY TIMER operation will be activated.

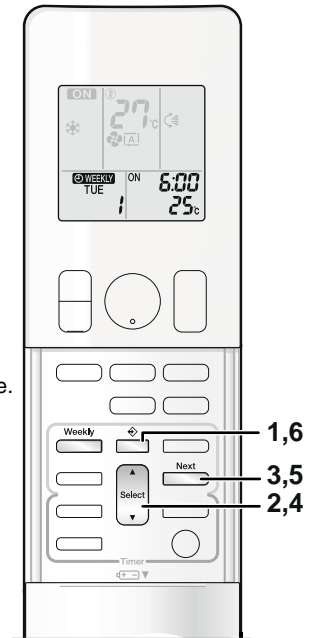
The reservations for each day of the week

- This function can be used for deleting reservations for each day of the week.
 - It can be used while confirming or setting reservations.
1. Press **“SELECT button”** to select the day of the week to be deleted.
 2. Hold **“WEEKLY button”** for 5 seconds.
 - The reservation of the selected day of the week will be deleted.

All reservations

Hold “WEEKLY button” for 5 seconds while normal display.

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone.
- This operation is not effective while WEEKLY TIMER is being set.
- All reservations will be deleted.



Care and Cleaning

CAUTION

- Before cleaning, be sure to stop the operation and turn off the circuit breaker.
- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.

■ Quick reference

Cleaning parts

Front panel

- Wipe it with a soft damp cloth.
- Only neutral detergent may be used.

If dirty



Air filter

- Vacuum dust or wash the filter.

Once every 2 weeks

▶ Page 30

Indoor unit, outdoor unit and remote controller

- Wipe them with a soft cloth.

If dirty

NOTE

For cleaning, do not use any of the following :

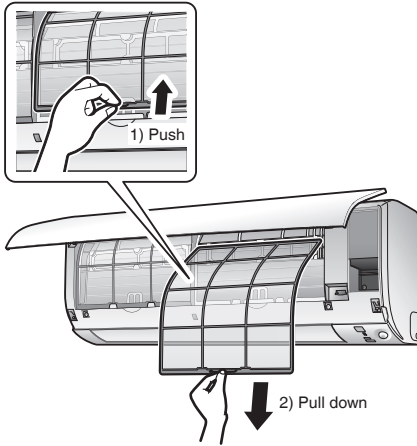
- Water hotter than 40°C
- Volatile liquid such as benzene, petrol and thinner
- Polishing compounds
- Rough materials such as a scrubbing brush



Air filter

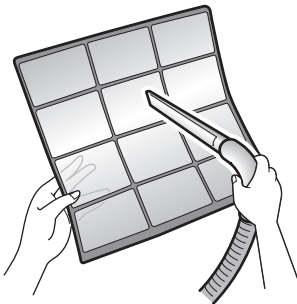
1. Pull out the air filters.

- Open the front panel.
- Push the filter tab at the centre of each air filter a little upwards, then pull it down.



2. Wash the air filters with water or clean them with vacuum cleaner.

- It is recommended to clean the air filters every 2 weeks.



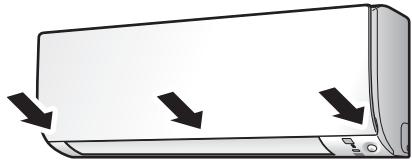
If the dust does not come off easily

- Wash the air filters with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- Be sure to remove the titanium apatite deodorizing filter. Refer to “Titanium apatite deodorizing filter” on the next page.



3. Set the filters as they were and close the front panel slowly.

- Press the front panel at both sides and the center.



*Appearance of the indoor unit may differ from some models.

CAUTION

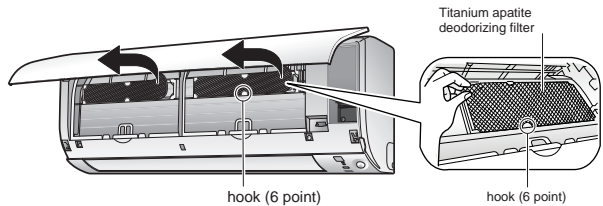
- Do not touch the aluminum fins by bare hand at the time of dismantling or mounting the filter.

■ Titanium apatite deodorizing filter

The titanium apatite deodorizing filter can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years.

1. Take off the titanium apatite deodorizing filter

- Open the front panel and pull out the air filter.
- Remove titanium apatite deodorizing filter from front grille by remove 6 points of hook.



2. Clean or replace the titanium apatite deodorizing filter.

[Maintenance]

2-1 Vacuum dusts, and soak in lukewarm water or water for about 10 to 15 minutes if dirt is heavy.

2-2 After washing, shake off remaining water and dry in the shade.



[Replacement]

Remove filter from front grille by remove 6 points of hook.

- Dispose of the old filter as non-flammable waste.

3. Set the filters as they were and close the front panel.

- Press the front panel at both sides and the center.



*Appearance of the indoor unit may differ from some models.

NOTE

- Operation with dirty filters:
 - 1) cannot deodorize the air.
 - 2) cannot clean the air.
 - 3) results in poor cooling.
 - 4) may cause odour.
- To order titanium apatite deodorizing filter contact to the service shop there you bought the air conditioner.
- Dispose of old filters as non-flammable waste.

Item	Model	Part No.
Titanium apatite deodorizing filter (without frame) 1 set	FTKM25/35/42/50	KAF970A46

Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
Check that the drain comes smoothly out of the drain hose during COOL or DRY operation. <ul style="list-style-type: none">• If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

■ Before a long idle period

- 1. Operate the “FAN only” for several hours on a fine day to dry out the inside.**
 - Press “MODE” button and select “FAN” operation.
 - Press “ON/OFF” button and start operation.
- 2. After operation stops, turn off the breaker for the room air conditioner.**
- 3. Clean the air filters and set them again.**
- 4. Take out batteries from the remote controller.**

Trouble Shooting


These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case	Explanation
Operation does not start soon. <ul style="list-style-type: none"> When ON/OFF button was pressed soon after operation was stopped. When the mode was reselected. 	<ul style="list-style-type: none"> This is to protect the air conditioner. You should wait for about 3 minutes.
The outdoor unit emits water or steam.	<ul style="list-style-type: none"> In COOL or DRY mode <ul style="list-style-type: none"> Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mist comes out of the indoor unit.	<ul style="list-style-type: none"> This happens when the air in the room is cooled into mist by the cold airflow during cooling operation. This is because the air in the room is cooled by the heat exchanger and becomes mist during defrost operation.
The indoor unit gives out odour.	<ul style="list-style-type: none"> This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)
The outdoor fan rotates while the air conditioner is not in operation.	<ul style="list-style-type: none"> After operation is stopped: <ul style="list-style-type: none"> The outdoor fan continues rotating for another 60 seconds for system protection. While the air conditioner is not in operation: <ul style="list-style-type: none"> When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.
The operation stopped suddenly. (OPERATION lamp is on.)	<ul style="list-style-type: none"> For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.
No remote controller signals are displayed. The remote controller sensitivity is low. The display is low in contrast or blacked out. The display runs out of control.	<ul style="list-style-type: none"> The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new size AAA alkaline batteries. For details, refer to "To set the batteries" of this manual. ▶ Page 9 If the reset button is provided, press the reset button after the batteries are replaced.
A squeaking sound is heard when the system is in operation or after the stop of operation.	<ul style="list-style-type: none"> Expansion and contraction of plastic parts caused by temperature change makes this noise.

Check again.

Please check again before calling a repair person.

Case	Check
The air conditioner does not operate. (OPERATION lamp is off.)	<ul style="list-style-type: none"> • Hasn't a breaker turned OFF or a fuse blown? • Isn't it a power failure? • Are batteries set in the remote controller? • Is the timer setting correct?
Cooling effect is poor.	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? • Is the temperature setting appropriate? • Are the windows and doors closed? • Are the airflow rate and the air direction set appropriately? • Is the unit set to the INTELLIGENT EYE mode?  Page 16
Operation stops suddenly. (OPERATION lamp flashes.)	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? <p>Clean the air filters or take all obstacles away and turn the breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, call the service shop where you bought the air conditioner.</p>
An abnormal functioning happens during operation.	<ul style="list-style-type: none"> • The air conditioner may malfunction with lightning or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.

Call the service shop immediately.

 **WARNING**

- When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker OFF. Continued operation in an abnormal condition may result in troubles, electric shocks or fire. Consult the service shop where you bought the air conditioner.
- Do not attempt to repair or modify the air conditioner by yourself. Incorrect work may result in electric shocks or fire. Consult the service shop where you bought the air conditioner.

If one of the following symptoms takes place, call the service shop immediately.

- **The power cord is abnormally hot or damaged.**
- **An abnormal sound is heard during operation.**
- **The safety breaker, a fuse, or the earth leakage breaker cuts off the operation frequently.**
- **A switch or a button often fails to work properly.**
- **There is a burning smell.**
- **Water leaks from the indoor unit.**



Turn the breaker OFF and call the service shop.

- | | |
|---|--|
| ■ After a power failure
The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while. | ■ Lightning
If lightning may strike the neighboring area, stop operation and turn the breaker OFF for system protection. |
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We recommend periodical maintenance.

In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist aside from regular cleaning by the user. For specialist maintenance, contact the service shop where you bought the air conditioner.
The maintenance cost must be born by the user.

MEMO

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